Review for Blitz on Light

This is a very comprehensive exam. You must practice well. The biggest danger is The Third Quarter Sluff Off! You must be able to solve the following types of problems: Inverse square law, intensity and illumination (finding the intensity of an unknown light), speed of light to measure distances, mirror & lens calculations (distances & sizes of images), Index of Refraction, Snell's Law.

There is a practice exam on your Blitz Program.

You must be able to define, explain, and use the following terms:

candela	interference of light	red sunsets & sunrises	light exerts	compare spectra
lumen	constructive		pressure	frequencies
intensity	destructive	annular eclipse of sun	comets' tails	compare spectra
Snell's Law	evidences of wave		the Quantum	wavelengths
Index of	theory of light	rectilinear	Theory	dispersion of light
Refraction	evidences of	propagation	Max Planck's	why can light be
lunar eclipse	particle theory of light	a glory	theory	polarized?
solar eclipse	electromagnetic	cirrus clouds	polarization of	what spectra tell us about
umbra	spectrum	primary rainbow	light	stars
penumbra	vectors of light	secondary rainbow	intensity of light	doppler effect on stars
phases of the	waves	mirage	illumination	double slit
moon	Huygens' theory of		luminous	experiment
	light		illuminated	spectroscope
angle of	Newton's theory of		translucent	types of telescopes
incidence	light	vectors of light waves		binoculars
	Maxwell's theory of	L L L L L L L L L L L L L L L L L L L	temp vs.	photons
	light		intensity	parts of electromagnetic
angle of	Maxwell's Equations		black-body	waves compare energies
refraction	show		radiation	of colors
tilt of earth &	cause of colour of		"c" in vacuum	discrete energy
seasons	light		in m/s	levels
line spectra	primary colours of		reflection law	electron energy chart
	light		spherical mirror	plasma
elements in the	primary colours of		parabolic mirror	images from lenses
	pigment		spherical	images from mirrors
composition of	complementary		aberration	real image
stars	colours		chromatic	virtual image
doppler effect on			aberration	
light	subtractive colours			
speed of stars				